Wireless environmental sensor node uses cloud-enabled platform

MicroStrain’s ENV-Link-Mini is positioned to simplify and streamline remote environmental monitoring, alerting and reporting. This long-range, low-power environmental sensing solution is appropriate for remote applications that demand scalable monitoring, simple initialization and easy access to data to allow users to quickly establish custom environmental sensing networks. Miniature, multi-channel wireless nodes support an array of sensor types for versatile configuration. Each node supports four sensor channels in an IP67 weatherproof enclosure. In addition to a dedicated relative humidity and temperature channel, users may select from environmental sensors including solar radiation, soil moisture, leaf wetness, and the option to add their own sensor. Wireless communication extends up to 2 km line-of-sight for enhanced remote sensing over a wider area and across thousands of nodes. The ENV-Link-Mini uses the LXRS wireless protocol enabling 100 percent data reliability, according to the company, under normal operating conditions. The company also asserts the nodes can be deployed for up to five years without replacing batteries.

Combined with MicroStrain’s cloud-based sensor data platform, SensorCloud, ENV-Link –Mini users can cost-effectively access unlimited environmental data. On SensorCloud users can quickly navigate environmental data, analyze trends and create alerts, which notify key personnel when environmental thresholds are exceeded. ENV-Link wireless environmental monitoring nodes will find immediate uses. Solar radiation site surveys can deploy them for return on investment (ROI) energy estimations. Data from distributed networks of ENV-Link nodes - archived in the cloud – also supports a wide range of applications in environmental monitoring and precision farming. These include: improved commercial agricultural operations for vineyards, plantations, and golf courses. ENV-Link’s sensor data can be used to improve predictive models of plant health and related entymological impacts that are associated with stressful environmental conditions. These data can help towards

reducing the use of herbicides and pesticides, which, in turn, will lead to cost savings for farmers.

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